C O U R S E G U I D E – s h o r t f o r m

Academic year 2018-2019

Course name[1]	**Superalloys**					Course code		5MATAE DI 01	
Course type[2]	DID	Category[3]	DI	Year of study	5	Semester	1	Number of credit points	5

Faculty	Materials Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Advanced Materials and Experimental Analysis Techniques	112	28	-	14	-	108

Pre-requisites from the curriculum[5]	Compulsory	
	Recommended	

General objective [6]	Presenting the structure, the properties, the applications and main processing methods of superalloys
Specific objectives[7]	Conveying practical information concerning the: • production, • fabrication • processing • designing • laboratory study • exploitation of superalloys.
Course description[8]	General characterization of superalloys, superalloys microstructure and properties, physical metallurgy of Ni-based superalloys, single crystal superalloys for turbine blades, superalloys applications.

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form [11]: Exam	Class tests along the semester	%		60 %
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: Probe 1: Grid test with 40 questions, each of them with 4 variants of answer among which only one correct 100%; Probe 2: working conditions; percent of the final grade %; Probe 3: working conditions; percent of the final grade %;	100 % (mini-mum 5)	19.01-10.02. 2019	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			40 %
D. Project	Activity during project			% (minimum 5)

Course organizer	Prof.dr.ing. Leandru-Gheorghe BUJOREANU	
Teaching assistants	Assist.Lecturer dr.ing. Elena MIHALACHE	

[1]Course name from the curriculum
[2] DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)
[3] DI – imposed, DO –optional, DL – facultative (from the curriculum)
[4] Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)
[5] According to 4.1 – Pre-requisites - from the Course guide – extended form
[6] According to 7.1 from the Course guide – extended form
[7] According to 7.2 from the Course guide – extended form
[8] Short description of the course, according to point 8 from the Course guide – extended form
[9] For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period
[10] A minimum grade might be imposed for some assessment stages
[11] Exam or colloquium